

**REQUEST FOR ACCESS TO AN APPLICATION UNDER 37 CFR 1.14(e)**

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In re Application of

Application Number

07/891 177

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1. ☒ I hereby request access under 37 CFR 1.14(e)(2) to the application file record of the above-identified ABANDONED Application, which is not within the file jacket of a pending Continued Prosecution Application (CPA) (37 CFR 1.53(d)) and is: (CHECK ONE)

☐ (A) referred to in:

United States Patent Application Publication No. \_\_\_\_\_, page \_\_\_\_\_, line \_\_\_\_\_,

United States Patent Number 6271 037, column \_\_\_\_\_, line \_\_\_\_\_, or

an International Application which was filed on or after November 29, 2000 and which

designates the United States, WIPO Pub. No. \_\_\_\_\_, page \_\_\_\_\_, line \_\_\_\_\_.

☐ (B) referred to in an application that is open to public inspection as set forth in 37 CFR 1.11(b) or

1.14(e)(2)(i), i.e., Application No. \_\_\_\_\_, paper No. \_\_\_\_\_, page \_\_\_\_\_, line \_\_\_\_\_.

2. ☐ I hereby request access under 37 CFR 1.14(e)(1) to an application in which the applicant has filed an authorization to lay open the complete application to the public.

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2-21-03  
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US006271037B1

(12) **United States Patent**  
Chait et al.

(10) **Patent No.:** US 6,271,037 B1  
(45) **Date of Patent:** Aug. 7, 2001

(54) **METHOD AND PRODUCT FOR THE  
SEQUENCE DETERMINATION OF  
PEPTIDES USING A MASS SPECTROMETER**

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(\*) **Notice:** Subject to any disclaimer, the term of this  
patent is extended or adjusted under 35  
U.S.C. 154(b) by 0 days.

(21) **Appl. No.:** 08/341,555  
(22) **PCT Filed:** May 27, 1993  
(86) **PCT No.:** PCT/US93/05070  
§ 371 **Date:** Jan. 24, 1996  
§ 102(e) **Date:** Jan. 24, 1996  
(87) **PCT Pub. No.:** WO93/24834  
**PCT Pub. Date:** Dec. 9, 1993

**Related U.S. Application Data**

(63) **Continuation-in-part of application No. 07/891,177, filed on  
May 29, 1992, now abandoned.**

(51) **Int. Cl.<sup>7</sup>** ..... G01N 33/00  
(52) **U.S. Cl.** ..... 436/89; 436/173; 436/174;  
436/178; 250/281; 250/282  
(58) **Field of Search** ..... 436/89, 173, 174,  
436/178; 250/281, 282

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(57) **ABSTRACT**

Method is described for sequencing polypeptides by forming  
peptide ladders comprising a series of polypeptides in which  
adjacent members of the series vary by one amino acid  
residue and determining the identity and position of each  
amino acid in the polypeptide by mass spectroscopy.

**45 Claims, 16 Drawing Sheets**

1-2-3-4-5-6-7-8-9.....n-(OH)

INTACT STARTING

PEPTIDE CHAIN

(X)-1-2-3-4-5-6-7-8-9.....n-(OH)

(X)-2-3-4-5-6-7-8-9.....n-(OH)

(X)-3-4-5-6-7-8-9.....n-(OH)

(X)-4-5-6-7-8-9.....n-(OH)

(X)-5-6-7-8-9.....n-(OH)

etc.